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NOTICE OF ALLOWANCE AND FEE(S) DUE

21567

7590

05/14/2008

WELLS ST. JOHN P.S. 601 W. FIRST AVENUE, SUITE 1300 SPOKANE, WA 99201 EXAMINER

LOGIE, MICHAEL J

ART UNIT PAPER NUMBER

2881

DATE MAILED: 05/14/2008

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

10/542,187 07/13/2005 John W Grossenbacher GR61-042 2697

TITLE OF INVENTION: MASS SPECTROMETER ASSEMBLIES, MASS SPECTROMETRY VACUUM CHAMBER LID ASSEMBLIES, AND MASS SPECTROMETER OPERATIONAL METHODS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	08/14/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence including ad below or directed other tions	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees will be pondence address; and/	e mailed to the current or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for	
		ock 1 for any change of address)	Fee(s) Transmittal. This cert	ificate cannot be used f er, such as an assignme	or domestic mailings of the for any other accompanying ant or formal drawing, must	
WELLS ST. JC 601 W. FIRST A SPOKANE, WA	VENUE, SUITE 1			Cartifica	to of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.	
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATT	ORNEY DOCKET NO.	CONFIRMATION NO.	
10/542,187 FITLE OF INVENTION SPECTROMETER OPE			John W Grossenbacher ASS SPECTROMETRY V.	ACUUM CHAMBER I	GR61-042 ID ASSEMBLIES, AN	2697 ID MASS	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$720	\$300	\$0	\$1020	08/14/2008	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
LOGIE, MI	ICHAEL J	2881	250-288000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attorlisted, no name will be	For printing on the patent front page, list) the names of up to 3 registered patent attorneys agents OR, alternatively, the name of a single firm (having as a member a gistered attorney or agent) and the names of up to registered patent attorneys or agents. If no name is sted, no name will be printed. PATENT (print or type)			
(A) NAME OF ASSIC	GNEE		(B) RESIDENCE: (CITY	and STATE OR COUN	TTRY)	ocument has been filed for	
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a. Applicant claims	tus (from status indicateds SMALL ENTITY statu	is. See 37 CFR 1.27.	b. Applicant is no long				
nterest as shown by the r	records of the United Sta	ites Patent and Trademark	office.	e applicant; a registered	attorney or agent; or th	ne assignee or other party in	
Authorized Signature				Date			
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an application. Confident submitting the completed his form and/or suggesti	iality is governed by 35 l application form to the ons for reducing this bu irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is est depending upon the indiverse Chief Information Office	mated to take 12 minut dual case. Any comme r. U.S. Patent and Trade	es to complete, including the on the amount of tire mark Office, U.S. Depar	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,187	07/13/2005	John W Grossenbacher	GR61-042	2697
21567 7:	590 05/14/2008		EXAM	INER
WELLS ST. JOHN P.S. 601 W. FIRST AVENUE, SUITE 1300			LOGIE, M	ICHAEL J
			ART UNIT	PAPER NUMBER
SPOKANE, WA 9	9201		2881	
			DATE MAILED: 05/14/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 229 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 229 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	 10/542,187	GROSSENBACHER ET AL.	
Notice of Allowability	Examiner	Art Unit	
	MICHAEL J. LOGIE	2881	
	WICHAEL J. LOGIE	2001	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS	
1. This communication is responsive to 29 January 2008.			
2. The allowed claim(s) is/are <u>72-77</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	been received.		
3. Copies of the certified copies of the priority do	cuments have been received in thi	s national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PT0	O-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application	
 Notice of References Cited (PTO-092) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Summar		
	Paper No./Mail D	ate	
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 01/29/2008	7. Examiner's Amen	dment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		nent of Reasons for Allowance	
	9. 🔲 Other		
	/Jack I. Berman/ Primary Examiner, Art Ur	nit 2881	

DETAILED ACTION

Response to Arguments

Applicant's arguments, see "remarks" pages 4-6, filed 29 January 2008, with respect to claims 1-77 have been fully considered and are persuasive. The "non-final rejection" of 30 July 2008 has been withdrawn.

Response to Amendment

An "Amendment" was received on 29 January 2008, in response to Office Action of 30 July 2008. Claims 1-71 have been cancelled and claim 72-77 have been newly added.

Allowable Subject Matter

Claims 72-77 are allowed.

The ion trap mass spectrometer configuration was not found in a prior art search.

The search failed to show or suggest the prior use of:

• The vacuum chamber housing comprising: a lid having an interior surface coupled with an ion trap, an exterior surface coupled to an analysis component wherein the analysis component and the ion trap are in fluid communication with each other and a second position to decouple the lid and all analysis components coupled to the lid from the base and provide the ion trap component wholly outside the vacuum chamber volume in configuration with the limitations of claim 1.

The following is an examiner's statement of reasons for allowance:

Art Unit: 2881

In regards to claim 72, prior art fails to disclose an ion trap mass spectrometer comprising: a vacuum chamber housing comprising a lid and a base, the lid and the base defining a vacuum chamber volume, and the base comprising at least one wall configured to couple with the lid, wherein the lid comprises: an interior surface configured to define an interior wall of the vacuum chamber and an exterior surface configured to couple with an analysis component; and a first opening extending through the lid from the analysis component to the interior surface; an ion trap mass separation component coupled to the interior surface of the lid without being coupled to the base and configured to perform at least some operations with respect to mass separation for use in mass spectrometry, wherein the first opening provides fluid communication between the ion trap and the analysis component; wherein the lid is configured to be removably operably coupled with respect to the base and positioned in a first operable position to seal with the base and provide the ion trap component wholly within the vacuum chamber volume, and a second position to decouple the lid and all analysis components coupled to the lid from the base and provide the ion trap component wholly outside the vacuum chamber volume.

Claims 73-77 allowed by virtue of their dependencies on the independent claim 72.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pertinent prior art is closely related art that individually or in combination could be considered grounds for rejection. See references cited for a listing of the pertinent prior art found and the prior art found.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Logie whose telephone number is 571-270-1616. The examiner can normally be reached on 7:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. J. L./ Examiner, Art Unit 2881 /Jack I. Berman/ Primary Examiner, Art Unit 2881